Title (en)

METHOD OF CALIBRATING A SURFACE SENSING DEVICE, CORRESPONDING CALIBRATING PROGRAM FOR A CONTROL COMPUTER AND CORRESPONDING CALIBRATION KIT

Title (de)

VERFAHREN ZUM KALIBRIEREN EINER OBERFLÄCHENSENSORVORRICHTUNG, ENTSPRECHENDES KALIBRIERPROGRAMM FÜR EINEN STEUERRECHNER UND ENTSPRECHENDES KALIBRIERUNGSSET

Title (fr)

PROCÉDÉ D'ÉTALONNAGE D'UN DISPOSITIF DE DÉTECTION DE SURFACE, PROGRAMME D'ÉTALONNAGE CORRESPONDANT POUR ORDINATEUR DE COMMANDE ET KIT D'ÉTALONNAGE CORRESPONDANT

Publication

EP 3583383 B1 20220810 (EN)

Application

EP 18706552 A 20180213

Priority

- GB 201702391 A 20170214
- GB 2018050387 W 20180213

Abstract (en)

[origin: WO2018150169A1] A surface sensing device (4) is mounted on an articulating probe head (7) of a coordinate measuring machine. The device (4) includes an elongate probe holder (8) which is rotatable about an axis (C). An elongate sensing module (10) includes a surface finish or surface roughness probe with a stylus tip (5). This is connected to the probe holder (8) via an adjustable knuckle joint (12). To determine the geometry of the surface sensing device (4), including the tip normal (TN) and drag vector (DV) of the stylus tip (5), the orientations of the probe holder (8) and the sensing module (10) are determined by probing points (44A, 44B, 46A, 46B) which are spaced along their lengths, using a separate probe (32).

IPC 8 full level

G01B 21/04 (2006.01); **G01B 5/012** (2006.01); **G01B 7/012** (2006.01); **G01B 11/03** (2006.01)

CPC (source: EP US)

G01B 5/012 (2013.01 - EP US); **G01B 7/012** (2013.01 - US); **G01B 11/007** (2013.01 - US); **G01B 21/042** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2018150169 A1 20180823; CN 110291360 A 20190927; CN 110291360 B 20230221; CN 116045764 A 20230502; EP 3583383 A1 20191225; EP 3583383 B1 20220810; EP 4141383 A1 20230301; EP 4141383 B1 20240131; GB 201702391 D0 20170329; JP 2020507787 A 20200312; JP 2023090783 A 20230629; JP 7269181 B2 20230508; US 11650050 B2 20230516; US 2020132452 A1 20200430; US 2023236010 A1 20230727

DOCDB simple family (application)

GB 2018050387 W 20180213; CN 201880011837 A 20180213; CN 202310177964 A 20180213; EP 18706552 A 20180213; EP 22183177 A 20180213; GB 201702391 A 20170214; JP 2019565069 A 20180213; JP 2023070138 A 20230421; US 201816483692 A 20180213; US 202318130447 A 20230404